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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/975,104	10/10/2001	Warren Snyder	CYPR-CD00183	8786	
75	90 08/16/2005		EXAM	INER	
WAGNER, MURABITO & HAO LLP			PHAN,	PHAN, THAI Q	
Third Floor					
Two North Market Street			ART UNIT	PAPER NUMBER	
San Jose, CA 95113			2128		
			DATE MAIL ED: 00/16/200	_	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>						
	Application No.	Applicant(s)				
Office Astion Commons	09/975,104	SNYDER, WARREN				
Office Action Summary	Examiner	Art Unit				
	Thai Q. Phan	2128				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		ļ				
<ol> <li>Responsive to communication(s) filed on 10 June 2005.</li> <li>This action is FINAL. 2b) This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ol>						
Disposition of Claims	·					
4) Claim(s) 1,2,4-13 and 15-17 is/are pending in the day of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.  6) Claim(s) 1,2,4-13 and 15-17 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 10 October 2001 is/are:  Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 2128

### **DETAILED ACTION**

This Office Action is in response to applicant's amendment filed on 06/10/2005.

Claims 3 and 14 were cancelled. Claims 1-2, 4-13, and 15-17 are pending in the Action.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Barnett et al, US patent no. 6,173,419 B1.

As per claim 1, Barnett anticipates an emulation method and emulator for debugging a target circuit with feature limitations very identical to the claimed invention.

According to Barnett, the emulation method includes steps

Executing a sequence of instructions by a device under test, wherein the device under test comprises a data line and a clock line (col. 5, lines 7-30),

Executing the sequence of instructions by an emulator device emulating the function of the target circuit or device under test in lock-step manner with the device under test (cols. 5 and 6),

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Conveying I/O read information from the device under test to the emulator device over the data line during a data transfer (col. 6, line 33 to col. 7, line 62),

A host computer system reading real time state and debug information from the emulator device without interrupt the device under test (cols. 5-7).

As per claim 2, Barnett anticipates the emulation is in a cycle comprising data transfer and a control phase.

As per claim 4, Barnett anticipates I/O transfer mechanism as claimed for synchronization, for instance.

As per claims 5-8 and 13, Barnett anticipates the device under test having a plurality of data lines as claimed, each claimed line could have a number of bits for information transmission as claimed (col. 6, line 51 to col. 7, line 10).

As per claims 9 and 16, Barnett anticipates an emulation method and emulator for debugging a target circuit with feature limitations very identical to the claimed invention. According to Barnett, the emulation method includes steps

Executing a sequence of instructions by a device under test, wherein the device under test comprises a data line and a clock line (col. 5, lines 7-30),

Executing the sequence of instructions by an emulator device emulating the function of the target circuit or device under test in lock-step manner with the device under test (cols. 5 and 6),

Conveying I/O read information from the device under test to the emulator device over the data line during a data transfer (col. 6, line 33 to col. 7, line 62),

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A host computer system reading real time state and debug information from the emulator device without interrupt the device under test (cols. 5-7), and conveying interrupt vectors or breakpoints from the microcontroller to the emulator device during an interrupt service cycle (cols. 5-7).

As per claim 10, Barnett anticipates the emulation is in a cycle comprising data transfer and a control phase.

As per claims 11 and 12, Barnett anticipates I/O transfer mechanism such as data transfer during emulation as claimed for timing and synchronization, for instance.

As per claim 15, Barnett anticipated breakpoints of interrupt service cycles for data assertion.

As per claim 17, Barnett anticipates the device under test would include the claimed feature for emulation.

## Response to Arguments

3. Applicant's arguments with respect to claims 1-2, 4-13, and 15-17 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US patent no. 6,016,554, issued to Skrovan et al, on Jan. 2000

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 571-272-3783. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean Homere can be reached on 571-272-3780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aug. 12, 2005

Thai Phan

Patent Examiner

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